Approach FSECRET 2003/12/18 : CIA-RDP78T04759A008500010052-7

PHOTOGRAPHIC INTERPRETATION REPORT



POSSIBLE VARIANTS OF CROSS LEGS RADARS

25X1

SEPTEMBER 1968
COPY 1 1 7
3 PAGES

25X1

Declass Review by NIMA / DoD

GROUP 1 EXCLUDED FROM AUTOMATIC DOWN GRADING AND DECLASSIFICATION

Approved For Release 2503/19/14: CIA-RDP78T04759A008500010052-7

Approved For Release 2003/12/18 : CIA-RDP78T04759A008500010052-7 25X1A

7	ᆮ	V	1
/	ຠ	Λ	

Approved For Release 2003/22/18/ CTA-RDP78 T04759A008500010052-7

INSTA LLATION OR ACTIVITY NA ME					COUNTRY	
Possible Variants of CROSS LEGS Radar					CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	NIETB NO.	
NA	See Below	None	None	None	None	
NA						
NA	•	NEC / HONE	DATE (If many)			
NA		NEGATION E	DATE ((frequired)			
NA		Į.				

ABSTRACT

25X1A

25X1D

This report has been accomplished in response to which specified areas to be examined to determine whether there are more than two variations of the CROSS LEGS radar, with particular emphasis on whether BIG BAR/BAR LOCK radars were being cannibalized in quantity. Twenty-nine areas of specific interest to the requester were examined, and CROSS LEGS were identified at ten of these. The areas referenced are tabulated at the end of this report.

The Chinese Communists have produced three native-designed radars which have been identified on photography: the MOON CONE, CROSS SLOT, and CROSS LEGS. All other Chinese radars are either of foreign origins or copies of foreign radars, i.e., TOKEN, FAN SONG, MOON FACE/SCR270. This report deals with the CROSS LEGS and its possible variants.

SUMMARY AND CONCLUSIONS

This analysis was conducted to determine whether a variant of the CROSS LEGS radar might be a cannibalization of the BIG BAR/BAR LOCK radar.

A known example of where this event has occurred has led to the speculation that this practice may be widespread.

The results of this investigation show that the one radar can be easily mistaken for the other, and this is the prevelant case rather than widespread cannibalization.

BASIC DESCRIPTION

The CROSS LEGS radar is named for the characteristic support struts which
form a cross-like pattern. The antenna appears to be an open-mesh cut parabolic
screen measuring the best example of which is seen at Lishui, China
(Figure 1).

25X1D کا

25%XA

- 1 -

Approved For Release 2003/12/18 : CIA-RDP78T04759A008500010052-7

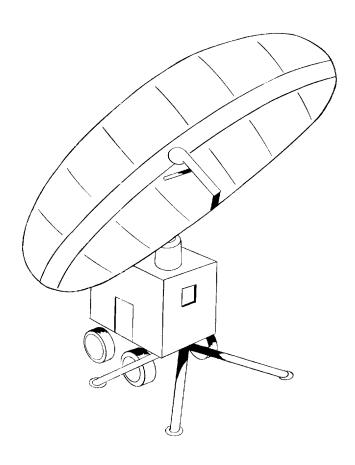
Approved For Hellas 2008 F12/18: CIA RDP78T04759A008500010052-7

2**5**5

25X1D

25X1D

There have been speculations that a variant of the CROSS LEGS radar may be a cannibalization of the BIG BAR/BAR LOCK radar sail. The fact that these radars have approximately the same measurements, 35 feet long for BIG BAR/BAR LOCK and for CROSS LEGS, and that both have cut parabolic reflectors, increases the chances of mistaking one for the other. Although an example of this type of cannibalization has been observed before at the Tachiu electronic intercept site, large scale cannibalization of other radars to produce CROSS LEGS radar seems unlikely since the widespread deployment would require the unnecessary cannibalization of large numbers of surplus radars. Also, because China has the industrial capability to produce native-design radars, there is no apparent need to resort to cannibalization to build radars in large numbers.



NPIC M-4652

FIGURE 1. CROSS LEGS RADAR.

	search areas where CROSS LEGS radars were identified:
	Ningming (22-10-35N 107-08-30E)
25X1D	Mission
25X1D	
	Ssumao (22-53-10N 100-59-10E)
25X1D	Mission
20/(12	Huian (25-08N 118-50E)
25X1D	Mission
20/(12	Shantou (23-26N 116-38E)
25X1D	Mission
	Chihsia (37-13-30N 120-44-25E)
25X1D	Mission
	Chiangchen (22-42-10N 101-53-30E)
25X1D	Mission
25X1D	
20/(12	
	Mengla (21-27-50N 101-33-30E)
25X1D	Mission
20/(12	Among goodship distribute GD ogg 7 7000
	Areas searched where CROSS LEGS radars were not identified
	Kuantien (40-51N 124-43E)
	Kushantzu (42-16N 126-37E)
	Paitientu (42-31N 123-37E)
	Takushan (37-52N 123-37E)
	Maian (36-42N 115-13E)
	Kuantao (36-40N 115-13E)
	Hofei (31-52N 117-17E)
	Fassuchou (30-09N 114-08E)
	Tunghuangtien (31-45N 114-00E)
	Leiyang (26-35N 112-53E)
•	Wangmuth (25-30N 115-00E)
	Chinfengch (26-00N 119-33E)
	Hsintsun (25-23N 110-29E)
	Kengma (23-32N 099-25E)
	Huangtsaoting (23-05N 114-47E)
	Ladrone FSL (21-56N 113-43E)
	Wushihchiang (20-30N 110-08E)
	Chinghsi (23-00N 106-25E)
	Hsivangchuang (31-48N 119-23E)

TOP SECRET Approved For Release 2003/12/18 : CIA-RDP78T04759A008500010052-7